PROJECT DESCRIPTION

THIS PROJECT INVOLVES A MODIFICATION OF THE EXISTING TRAFFIC SIGNAL INSTALLATION AT THE INTERSECTION OF MD 210 (INDIAN HEAD HIGHWAY) AND OLD FORT ROAD - SOUTH. VEHICULAR SIGNAL HEADS FOR THE NORTHBOUND AND SOUTHBOUND APPROACHES WILL BE CHANGED TO BLACK-FACED SIGNALS. VIDEO DETECTION WILL REPLACE THE EXISTING PRESENCE LOOP DETECTORS FOR THE NORTHBOUND AND SOUTHBOUND LEFT TURN MOVEMENTS AND THE EASTBOUND AND WESTBOUND APPROACHES. MICRO-LOOP PROBES WILL REPLACE THE EXISTING PASSAGE LOOP DETECTORS FOR THE SOUTHBOUND APPROACH. MD 210 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

CONTROLLER OPERATION

THE EXISTING EIGHT-PHASE FULLY-ACTUATED NEMA CONTROLLER WILL BE USED. THE CONTROLLER WILL CONTINUE TO OPERATE IN A FOUR-PHASE FULLY-ACTUATED MODE WITH THE NORTHBOUND AND SOUTHBOUND MD 210 APPROACHES RUNNING CONCURRENTLY AND THE EASTBOUND AND WESTBOUND OLD FORT ROAD-SOUTH APPROACHES RUNNING IN CONSECUTIVE PHASES. EXCLUSIVE PHASING IS PROVIDED FOR THE NORTHBOUND AND SOUTHBOUND LEFT TURN MOVEMENTS. AN ALTERNATE PEDESTRIAN PHASE OPERATES CONCURRENTLY WITH THE EASTBOUND OLD FORT ROAD-SOUTH MOVEMENT UPON PEDESTRIAN ACTUATION. VIDEO DETECTION INTERFACE EQUIPMENT WILL BE INSTALLED IN THE EXISTING CABINET.

MAINTENANCE OF TRAFFIC

THE FOLLOWING WORK ZONE TRAFFIC CONTROL STANDARDS SHALL BE USED FOR THE TRAFFIC SIGNAL-RELATED CONSTRUCTION AND SHALL SUPPLEMENT THE PROJECT TRAFFIC CONTROL PLAN.

STANDARD NO. 104.00
STANDARD NO. 104.44-01 (LEFT LANE CLOSURE)
STANDARD NO. 104.45-01 (RIGHT LANE CLOSURE)
STANDARD NO. 104.46-01 (CENTER LANE CLOSURE)
STANDARD NO. 104.48-01 (INTERSECTION (LEFT LANE/TURN BAY CLOSURE))
STANDARD NO. 104.49-01 (SHOULDER WORK)

CONTACT PERSONS FOR DISTRICT 3 ARE AS FOLLOWS:

MR. MAJID SHAKIB
ASSISTANT DISTRICT ENGINEER - TRAFFIC
(301) 513-7358

MR. AUGUSTINE REBISH
ASSISTANT DISTRICT ENGINEER - UTILITIES
(301) 513-7350

MR. RALEIGH MEDLEY
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
(301) 513-7304

THE POWER COMPANY REPRESENTATIVE IS:

POTOMAC ELECTRIC POWER COMPANY
MR. RICHARD CHILCOAT
(202) 872-2000

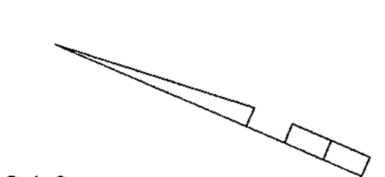
CONTACT PERSONS FOR THE OFFICE OF TRAFFIC AND SAFETY ARE AS FOLLOWS:

MR. RICHARD DAFF SR.
DIVISION CHIEF, TRAFFIC OPERATIONS
410-787-7630

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS
410-787-7631

MR. ED RODENHIZER
CHIEF, SIGNAL OPERATIONS
410-787-7652

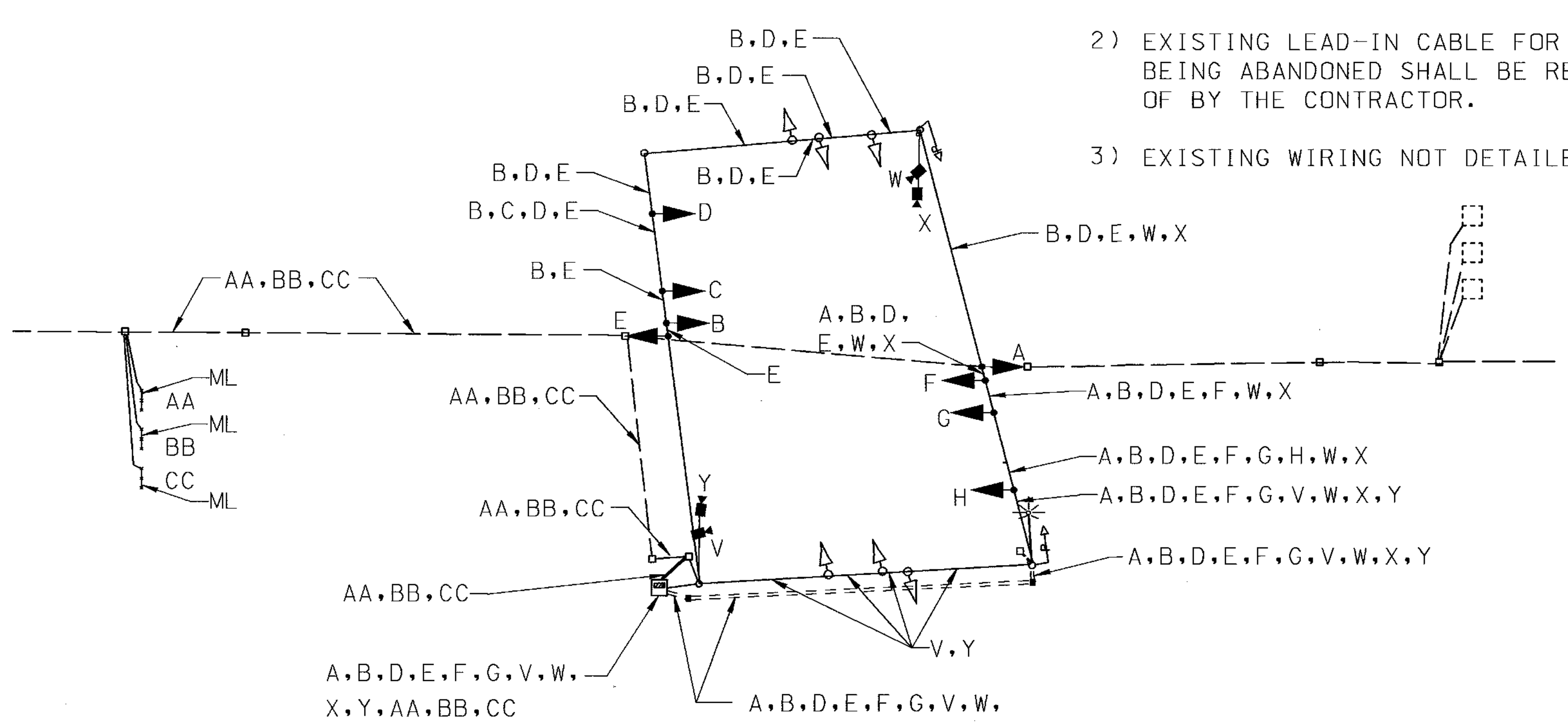
MR. EUGENE BAILEY
TEAM LEADER SIGN OPERATIONS
410-787-7676



MD 210
IS ASSUMED TO RUN IN
A NORTH-SOUTH DIRECTION

WIRING DIAGRAM

NOT TO SCALE



WIRING NOTE:

1) EXISTING WIRING FOR EQUIPMENT WHICH IS BEING REMOVED SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.

2) EXISTING LEAD-IN CABLE FOR LOOP DETECTORS WHICH ARE BEING ABANDONED SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.

3) EXISTING WIRING NOT DETAILED SHALL REMAIN IN PLACE.

WIRING LEGEND

C,D,G,H - 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
A,B,E,F - 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
AA,BB,CC - MICRO-LOOP PROBE LEAD-IN
ML - MICRO-LOOP PROBE SET
V,W,X,Y - VIDEO DETECTION CAMERA CONTROL CABLE

EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION

ITEM NO.	QUANTITY	DESCRIPTION
9001	1 EA	VIDEO INTERFACE EQUIPMENT
9002	1 EA	RETRO RACK
9003	2 EA	FOUR CHANNEL LOOP DETECTION AMPLIFIER, RACK MOUNT

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
2001	2 CY	TEST PIT EXCAVATION
8001	1 LS	REMOVE AND DISPOSE OF EXISTING EQUIPMENT
8002	2 EA	RELOCATE EXISTING OVERHEAD SIGN
8003	2 EA	PUSHBUTTON SIGN
8004	2 EA	INSTALL CONDUIT BEND IN EXISTING BASE
8005	110 LF	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED
8006	10 LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8007	10 LF	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8008	15 LF	1 INCH LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
8009	3 EA	MICROLOOP PROBE, 1000 FOOT LEAD IN CABLE
8010	2 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8011	4 EA	VIDEO DETECTION CAMERA
8013	4 EA	CONTROL CABLE, 500 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER
8014	1 EA	AS-BUILT FOR TRAFFIC SIGNAL
8015	24 EA	12 INCH VECHICULAR TRAFFIC SIGNAL HEAD SECTION
8016	800 LF	ELECTRICAL CABLE - 5 CONDUCTOR (No 14 AWG)
8017	1550 LF	ELECTRICAL CABLE - 7 CONDUCTOR (No 14 AWG)
8018	100 LF	SAW CUT FOR SIGNAL (LOOP DETECTOR)
8020	2 EA	20 FOOT LIGHTING ARM ON SIGNAL STRUCTURE

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA:
ALL REMOVED SIGNAL MATERIALS ARE TO BECOME THE PROPERTY OF THE CONTRACTOR.

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	◁R ◁Y ◁G	◁R ◁Y ◁G	R Y G	R Y G	◁R ◁Y ◁G	◁R ◁Y ◁G	R Y G	R Y G	R Y G ◁G	R Y G ◁G	R Y G	R Y G ◁G	R Y G ◁G	R Y G		
PHASE 1 & 5	◁G-	◁G-	R	R	◁G-	◁G-	R	R	R	R	R	R	R	R	DW	DW
1 & 5 CHANGE	THE CONTROLLER MAY SKIP TO PHASES 1 & 6 OR 2 & 5 OR 2 & 6															
PHASE 1 & 6	◁G-	◁G-	G	G	◁R-	◁R-	R	R	R	R	R	R	R	R	DW	DW
1 & 6 CHANGE	◁Y-	◁Y-	Y	Y	◁R-	◁R-	R	R	R	R	R	R	R	R	DW	DW
PHASE 2 & 5	◁R-	◁R-	R	R	◁G-	◁G-	G	G	R	R	R	R	R	R	DW	DW
2 & 5 CHANGE	◁R-	◁R-	R	R	◁Y-	◁Y-	Y	Y	R	R	R	R	R	R	DW	DW
PHASE 2 & 6	◁R-	◁R-	G	G	◁R-	◁R-	G	G	R	R	R	R	R	R	DW	DW
2 & 6 CHANGE	◁R-	◁R-	Y	Y	◁R-	◁R-	Y	Y	R	R	R	R	R	R	DW	DW
PHASE 3	◁R-	◁R-	R	R	◁R-	◁R-	R	R	R	R	R	◁G- G	◁G- G	G	DW	DW
3 CHANGE	◁R-	◁R-	R	R	◁R-	◁R-	R	R	R	R	R	Y	Y	Y	DW	DW
PHASE 4	◁R-	◁R-	R	R	◁R-	◁R-	R	R	◁G- G	◁G- G	G	R	R	R	DW	DW
4 CHANGE	◁R-	◁R-	R	R	◁R-	◁R-	R	R	Y	Y	Y	R	R	R	DW	DW
ALT. 4	◁R-	◁R-	R	R	◁R-	◁R-	R	R	◁G- G	◁G- G	G	R	R	R	W	W
PED. CLEAR	◁R-	◁R-	R	R	◁R-	◁R-	R	R	◁G- G	◁G- G	G	R	R	R	FL/DW	FL/DW
ALT. 4 CHANGE	◁R-	◁R-	R	R	◁R-	◁R-	R	R	Y	Y	Y	R	R	R	DW	DW
FLASHING OPERATION	FL/ ◁R-	FL/ ◁R-	FL/ Y	FL/ Y	FL/ ◁R-	FL/ ◁R-	FL/ Y	FL/ Y	FL/ R	FL/ R	FL/ R	FL/ R	FL/ R	FL/ R	DARK	DARK

TSP-2

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION SHEET
MD 210 (INDIAN HEAD HIGHWAY)
AT OLD FORT ROAD-SOUTH

KCI TECHNOLOGIES
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PLANNERS
SCIENTISTS
CONSTRUCTION MANAGERS
10 NORTH PARK DRIVE
HUNT VALLEY, MD 21030
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DRAWN BY:	J. LAWRENCE	F.A.P. NO.		TS NO. 1175E-G1	SHEET NO.
CHECKED BY:	A. HOTTENSTEIN	S.H.A. NO.	PG409A21		
SCALE:	NONE	COUNTY:	PRINCE GEORGE'S	T.I.M.S. NO. F295	
DATE:	10/02	LOG MILE:	16021006.81		2 OF 2

PLOTTED: "08:15 AM on Wednesday, October 23, 2002"
BY: Rick Briggs Division: Transportation
FILE: m:\1997\0197029.bf\drawings\F295G01.dgn